5

## ABSTRACT OF THE DISCLOSURE

Method for coating a non-oxidised stainless steel support plate and a MCFC fuel cell stack provided with a separator plate coated in this way. First a diffusion barrier layer and then a nickel layer are applied to the anode side of said support plate. Said diffusion barrier layer consists of titanium oxide and the adhesion between titanium oxide and the support plate can be improved by providing an adhesion layer.